

International Application No.: PCT/JP2004/016529
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Page 3 of 8

IN THE ABSTRACT:

Please replace the Abstract of the Disclosure originally filed with the above-identified patent application with the following NEW Abstract:

ABSTRACT OF THE DISCLOSURE

A switching power-supply unit uses a time when a transformer voltage V_t inverts due to a rectifier diode (D_{s1}) entering a non-conducting state as a trigger, and a first switching control circuit (CNT1) turns on a first switching element (Q1) after a predetermined delay time passes. A second switching control circuit (CNT2) turns on a second switching element (Q2) using a time when the transformer voltage V_t inverts due to turning off of the first switching element (Q1) as a trigger. A third switching control circuit (CNT3) turns on a third switching element (Q3) using turning off of the second switching element (Q2) as a trigger. The first switching control circuit (CNT1) determines a period $ton1$ of the first switching element (Q1) such that a first output voltage $Vo1$ is set to a predetermined value. The second switching control circuit (CNT2) determines an ON-period $ton2$ of the second switching element (Q2) such that a second output voltage $Vo2$ is set to a predetermined value. The third switching control circuit (CNT3) determines an ON-period $ton3$ of the third switching element (Q3) such that a third output voltage $Vo3$ is set to a predetermined value.